

**HHSDC Training Center**

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## ***Programmer/Analyst Boot Camp at the HHSDC Training Center***

**Are legacy systems still part of  
your Information Systems?**

**Still using MVS-based mainframe  
systems?**

**Here is a program that will be of  
great interest to you.**

Industry watchdogs are currently highlighting the problem of disappearing skill sets relevant to “mainframe” based legacy systems. As the members of the current workforce reach retirement age, these traditional skill sets are becoming harder and harder to replace. With this in mind, the HHSDC Training Center is offering this special training opportunity to help you replace these essential skills in your department.

The ***Programmer/Analyst Boot Camp*** is an intensive, 25-day training course designed to develop information technology novices into programmer/analysts with the skill sets needed to perform common programming activities in an OS/390 or z/OS environment, including analysis, design, coding and testing.

### **WHY ATTEND THE BOOT CAMP?**

- *The curriculum teaches a full range of necessary programmer skills in one continuous program.*

- *The boot camp features intensive workshops and practical hands-on exercises to reinforce and practice the skill sets.*
- *Students will learn standardized skills immediately applicable in their workplace.*
- *Less expensive than taking similar courses one at a time.*
- *Small class size (max of 14) allows for greater instructor-student interaction.*
- *Consultation between instructors and supervisors to monitor student progress is available upon request.*
- *The instructors are highly qualified, experienced trainers of the subject matter.*

### **BOOT CAMP DATES AND CLASS TIMES**

- March 23 through April 30, 2004 (with two short breaks on Apr. 1-2 and Apr. 16)
- Classes will begin at 8:15 AM each day and end at approximately 4:00 PM.

### **INSTRUCTORS**

The boot camp will be taught by Train-Right, our popular training contractor for mainframe and structured analysis training.

### **LOCATION**

The boot camp will be held at the HHSDC Training Center at the above address.

**TUITION**

\$4,950 per student

**PROGRAM DESCRIPTION**

This 25-day boot camp will develop novice Information Technology professionals into Programmer/Analysts. They will learn the basics of structured analysis, design, and testing, OS/390 and z/OS architecture, usage of the TSO/ISPF editor, job control language, and the latest COBOL programming language. The program is subdivided into the following modules:

**Introduction to Structured Analysis** – This 4-day module opens the boot camp by presenting the basics of the Yourdon Systems Method approach to structured analysis. The course covers the creation of a current system implementation model and its transformation into a system essential model. The models are created and documented using data flow diagrams, mini-specs and data dictionary entries.

**Introduction to Structured Design** – This 2-day module presents the basics of the Yourdon Systems Method (YSM) approach to structured design. The course covers the creation of a new System Implementation Model (SIM) from the System Essential Model (SEM) that was created during structured analysis. The three steps of structured design are defined and the various views that make up the SIM are created and documented using physical data flow diagrams, structure charts, pseudo-code, and data dictionary entries.

**Structured Testing Fundamentals** – This 3-day module presents an architecture that helps define a process to implement a structured testing environment for all phases of the Systems Development Life Cycle (SDLC). It focuses on the four distinct techniques of structured testing — independent creation, independent review, functional testing and structural testing — each of which must be present in any quality assurance program to ensure an absolute minimum of system problems. Using risk assessment as a guide for structured testing is emphasized and a risk matrix is presented.

**Introduction to OS/390** – This 1-day module will give newcomers to OS/390 and z/OS an overview of the mainframe operating system architecture and an introduction to the mainframe environment.

**TSO/ISPF and Job Control Language (JCL)** – This 5-day module presents all of the commonly used facilities of the TSO/ISPF product in the OS/390 and z/OS environment, such as data set browsing and editing, data set creation and manipulation, batch job submission and tracking, and review of batch job output. It then covers all of the basic JCL statements and discusses the most commonly used parameters on each. Several of the regularly used IBM utility programs are explained and examples of their use in JCL are presented.

**COBOL Programming** – The boot camp concludes with this 10-day module that presents the basic concepts of the COBOL programming language, including program structure, statements, arithmetic, data manipulation and file processing. The student will use the skills learned in the previous modules to design, test, and implement a successful COBOL program.

**HOW TO REGISTER**

To enroll in this boot camp, please have your training coordinator call the HHSDC Training Center Registration Line at 739-7502. We will take all enrollment and billing information over the phone, then send the training coordinator written confirmation and a map to HHSDC for each student.

*Cancellations and requests to reschedule enrolled students MUST be made by TEN (10) WORKING DAYS PRIOR TO THE FIRST DAY OF CLASS or the department will be required to pay the full course fee. Substitutions may be made at any time.*

The HHSDC Training Center is located at 9323 Tech Center Drive, Suite 100, in Sacramento. Tech Center Drive is located one block south of the intersection of Folsom Blvd. and Mayhew Road, between Bradshaw and Watt. Plenty of free parking is available.

**Satisfaction guaranteed or your money back**

*The HHSDC Training Center is a State of California agency providing information technology training services to public sector employees.*